Amendments to the Claims

1. (Original) A projector apparatus, comprising:

a color wheel, said color wheel having a rotation center and including multiple filter devices, wherein at least one said filter device includes a first filter and a white filter connected to said first filter, a boundary arc is defined at the connection of said first filter and said white filter, said boundary arc has a center of curvature near said rotation center; and

a lamp for generating a light beam;

wherein as said color wheel is rotated, said light beam projects into each said first filter, said white filter, and said boundary arc selectively to filter said light beam.

- 2. (Currently Amended) The projector apparatus of claim 1, wherein a ratio of the area of said first filter to the an area of said white filter for each filter device is a predetermined ratio, and the predetermined ratios corresponding to one filter device is the same as or different from a ratio of a different filter device. among the filter devices are selectively the same.
- 3. (Original) The projector apparatus of claim 1, wherein said light beam is filtered to become a first color light of a first brightness as said light beam passes said first filter, and said light beam is filtered to become said first color light of a second brightness as said light beam passes said white filter and said boundary arc, wherein color of said first color light is non-white, said first brightness is smaller than said second brightness.
- 4. (Original) The projector apparatus of claim 1, further comprising a driving device for selectively driving said color wheel to rotate, to radially move, and to axially move.
- 5. (Currently Amended) The projector apparatus of claim 4, wherein when said color wheel is a disk-type color wheel, said disk-type color wheel moves radially for selectively allowing

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said light beam to project into said first filter, said white filter, and said boundary arc, and wherein when said color wheel is a barrel-type color wheel, said color wheel moves axially for selectively allowing said light beam to project into said first filter, said white filter, and said boundary are.

- 6. (Original) The projector apparatus of claim 1, comprising a digital micro-mirror projector device.
- 7. (Original) The projector apparatus of claim 1, comprising a liquid-crystal-on-silicon device.
 - 8. (Currently Amended) A projector apparatus, comprising:

a color wheel, said color wheel having a rotation center and including multiple filter devices, wherein at least one said filter device includes a first filter and a white filter connected to said first filter, a boundary arc is defined at the connection of said first filter and said white filter, said boundary arc has a center of curvature near said rotation center, wherein a ratio of the area of said first filter to the area of said white filter for each filter device is a predetermined ratio and the predetermined ratios corresponding to one filter device is the same as or different from a ratio of a different filter device among the filter devices are selectively the same; and

a lamp for generating a light beam;

wherein as said color wheel is rotated, said light beam projects into each said first filter, said white filter, and said boundary arc selectively to filter said light beam.

9. (Original) The projector apparatus of claim 8, said light beam is filtered to become a first color light of a first brightness as said light beam passes said first filter, and said light beam is filtered to become said first color light of a second brightness as said light beam passes said white

filter and said boundary arc, wherein the color of said first color light is non-white and said first brightness is smaller than said second brightness.

- 10. (Original) The projector apparatus of claim 8, further comprising a driving device for selectively driving said color wheel to rotate, to radially move, and to axially move.
- 11. (Currently Amended) The projector apparatus of claim 10, wherein as said color wheel is a disk-type color wheel, said disk-type color wheel moves radially for selectively allowing said light beam to project into said first filter, said white filter, and said boundary arc, and as said color wheel is a barrel-type color wheel, said color wheel moves axially for selectively allowing said light beam to project into said first filter, said white filter, and said boundary are.
- 12. (Original) The projector apparatus of claim 8, comprising a digital micro-mirror projector device.
- 13. (Original) The projector apparatus of claim 8, comprising a liquid-crystal-on-silicon device.
 - 14. (Currently Amended) A digital micro-mirror projector device, comprising:

 a color wheel, said color wheel having a rotation center and including multiple filter
 devices, wherein at least one said filter device includes a first filter and a white filter
 connected to said first filter, a boundary arc is defined at the connection of said first filter
 and said white filter, said boundary arc has a center of curvature near said rotation center,
 wherein a ratio of the area of said first filter to the area of said white filter for each filter
 device is a predetermined ratio, and the predetermined ratios corresponding to one filter
 device is the same as or different from a ratio of a different filter device among the filter

devices are selectively the same; and

a lamp for generating a light beam;

wherein as said color wheel is rotated, said light beam projects into each said first filter, said white filter, and said boundary arc selectively to filter said light beam, said light beam is filtered to become a first color light of a first brightness as said light beam passes said first filter, and said light beam is filtered to become said first color light of a second brightness as said light beam passes said white filter and said boundary arc, wherein the color of said first color light is non-white and said first brightness is smaller than said second brightness.

- 15. (Original) The digital micro-mirror projector device of claim 14, further comprising a driving device for selectively driving said color wheel to rotate, to radially move, and to axially move.
- 16. (Currently Amended) The digital micro-mirror projector device of claim 15, wherein when said color wheel is a disk-type color wheel, said disk-type color wheel moves radially for selectively allowing said light beam to project into said first filter, said white filter, and said boundary arc, and when said color wheel is a barrel-type color wheel, said color wheel moves axially for selectively allowing said light beam to project into said first filter, said white filter, and said boundary are.
- 17. (New) The projector apparatus of claim 4, wherein said color wheel is a barrel-type color wheel, said barrel-type color wheel moves axially for selectively allowing said light beam to project into said first filter, said white filter, and said boundary arc.
- 18. (New) The projector apparatus of claim 10, wherein said color wheel is a barrel-type color wheel, said barrel-type color wheel moves axially for selectively allowing said light

beam to project into said first filter, said white filter, and said boundary arc.

19. (New) The digital micro-mirror projector device of claim 15, wherein said color wheel is a barrel-type color wheel, said barrel-type color wheel moves axially for selectively allowing said light beam to project into said first filter, said white filter, and said boundary arc.

20. (New) The projector apparatus of claim 1, wherein ratio of the area of said first filter to the area of said white filter for each filter device is a predetermined ratio, and the predetermined ratio corresponding to one filter device is the same as those to the other filter devices.